APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Severin, Hans.
ABSORPTION SPECTRUM AND RADIATION FIELDS OF THE Ho··· ION IN SOLID SALTS. [1961]
[24]p. 42 refs.
Order from SLA $2.60 61-20008

Trans. of Zeitschrift für Physik (West Germany) [1947] v. 125, p. 455-474.

DESCRIPTORS: Rare earth ions, Ions, *Holmium compounds, *Sulfates, *Ethyl radicals, Absorption, Fluorescence, Spectrographic data, Crystals, Lattices.

(Chemistry--Physical, TT, v. 7, no. 9)

61-20008

I. Severin, H.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Integral and Series Representations for the Various Wave Types of Mathematical Physics in Coordinates of the Paraboloid of Revolution, by Herbert Buchholz, 33 pp.

GERMAN, per, Zeitschrift [illegible], Vol CXXIV, 1947-1948, pp 196-218. CIA D 151130

Air Res and Dev Command

Scientific - Physics T-36 Q E

22,475 CSS 66/Mar 1953

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Protons as the Primary Component of Cosmic Radiation, by K. Hocker, 46 pp.

GERMAN, per, Z. f. physik, Vol CXXIV, 1948, p 351-

SLA Tr 1566

Sci - Nuclear physics
Apr 1957

9410 1957

46,159

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

The Statistical Theory of Turbulence, by W. Heisenberg, 19 pp.

GERMAN, per, Zeit fur Physik, Vol CXXIV, 1948, pp 628-657.

CIA/FDD/AX-37
TAC INTERNAL USE ONLY

Scientific - Physics Jan 56 CTS/DEX

29,627

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

TT-65-13913 Field 20H

Paul, W.; Wessel, G.
MEASUREMENT OF THE DENSITY AND AVERAGE MOLECULAR SPEED IN AN ATOMIC BEAM. 8p (figs omitted) 4refs.
Order from SLA: $1.10 as TT-65-13913

Trans. of Zeitschrift fuer Physik (West Germany) v124 p691-9 1948.

MR 668

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

on the Theory of Coercive Force, by
[illegible] Kersten.
GERM, per, Z. Physik, Vol 124, Nb 9, 1948,
pp 714-741.
BISI 7214

sci/materials
jan 70

399,920

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

On the Equation of State at High Temperatures and Densities, by Helmut Steinwedel, J. Hans Jensen, 10 pp.

GERMAN, per, Z fuer Physik, Vol CXXV, 1949, pp 394-404. 9093321

AEC UCRL Tr-761(L)

Sci - Phys
Apr 50

191,302

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Needle Counter and Counting Tube in Metal-Lographic Surface Investigations, by J. Draker, 21 pp.

GERMAN, pur, Z. Physik, Vol CXXV, 1949, pp 739-756.

92 18329

AEC-80-T-519

Sci-Phys
Jan 64

248,351

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Brix, Peter.
PHOTOGRAPHIC EFFECT OF MEDIUM SPEED PROTONS: MEASUREMENTS ON AGFA-AUTOLITH PLATES. [1961] [15]p. 17 refs.
Order from SLA $1.60 62-10630

Trans. of Z[eit]s[chrift] f[ür] Phys[ik] (West Germany) 1949, v. 126, p. 35-48.

DESCRIPTORS: *Photographic plates, Sensitivity, *Protons, Energy, Scattering, Silver compounds, Bromides, Photographic emulsions.

Blackening curves recorded with 2.6-7.0 KeV energy protons show a pronounced "hump" for low blackenings. It is explained by means of the direct grain collisions of the impinging protons within their radius of influence, while the further rise of the blackening curves is traced back to the secondary processes. It is shown that it is (Materials--Photographic, TT, v. 7, no. 9) (over)

62-10630

I. Brix, P.
II. Title: Measurements ...

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Kossel, Dierick.
INTERFERENCES IN LAYERS WITH A TOTALLY REFLECTIVE BORDER. [1961] 26p. (18 figs. 17 equations omitted) 7 refs.
Order from SLA $2.60 62-10567

Trans. of Zeitschrift für Physik (West Germany) 1949, v. 126, p. 233-260.

DESCRIPTORS: Vapors, Thin films, Reflection, *Refractive index, Determination, Interference.

(Physics--Optics, TT, v. 7, no. 9)

62-10567

I. Kossel, D.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Observation on the Limits of Detectability of Weak Alkali Molecular Beams Through Ionization on Hot Tungsten, by Friedrich Knauer, 11 pp.
GERMAN, per, Z fuer Physik, Vol CXXVI, 1949, pp 310-318. 92226378
AEC-UCRL-Tr-1031

Sci-Phys
Jun 64

260,940

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Analysis of Velocity Distribution in a Molecular Beam by Measuremtn of Time of Flight, by Friedrich Knauer, 18 pp.
GERMAN, per, Z fuer Physik, Vol CXXVI, 1949, pp 319-335. 9220793
AEC-UCRL-Tr-1032

Sci-Phys
May 64

257,178

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

R-1074-B
15 June 64

Agency: Air Force
P.O. #: AF-8-002

Title: Über das Spannungsfeld einer Versetzung
Author: Gunther Leibfried und Kurt Lucke
Source: Zeit. fur Physik, Bd. 126, S.450-464 (1949)

15 pp

Language: German

Special Instructions: Please translate and type 1 copy

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Reductions of Thermal Forces to Ideal Purity of Metals, by Max Kohler, 20 pp. GERMAN, per, Z fuer Physik, Vol ~~XXVI~~, 1949, pp 481-494.
Navy Tr 3885/NRL 983 CXXVI
NTC-70-23240

Sci - M/M
~~M~~Sep 64

260,297

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Naval Observatory
DEX

R-4048-D
28 Apr 64

Reduction of Thermopower to Ideal Purity of Metals, by Max Kohler; Z. fuer Physik, No 126, 1949, pp 481-494

German - estimated foreign words:

Type One clear double spaced copy. Cut and Paste up. Literature citations need not be translated except where some remarks are in German. Please copy titles of articles of journals as shown in German, as well as the titles of articles, etc.

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

On the Formulation of a General Diffraction Problem Through an Integral Equation, by A. W. Maue, 25 pp.

GERMAN, per, Zeit f Physik, Vol CXXVI, 1949, pp 601-618.

29,470 CIA/FDD/DX-32
IAC INTERNAL USE ONLY

Scientific - Physics Dec 55 CTS/DEX

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Surface Migration of Tungsten on Its Own Crystal Lattice, by Erwin W. Muller, 30 pp. [redacted]

GERMAN, per, Z fuer Physik, Vol CXXVI, 1949, pp 642-665. 9097026

AEC Tr-4966

Sci - Phys
Mar 62

186, 498

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Irregularities in Pendulum Clocks Caused by Tidal Forces, Earthquakes and Modifications of the Length of the Pendulum, by Christian Hoffrogge, 39 pp.

GERMAN, per, Z fur Physik, Vol CXXVI, No 7-9, 1949, pp 671-688.

SLA 60-14198

Sci
Jan 62
Vol III, No 10

179, 911

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

On KCl Crystals and Other Alkali Halides, by
H. Kelting.
GERMAN, per, Zeit Physik, Vol 126, 1949,
pp 697-710.
*Nat Bur Stand TT 70-57811

Sci-Chem
Jul 70

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Remarks on the Mathematical Treatment of Complicated Diffusion Problems, by W. Jost, 14 pp.

GERMAN, per, Z Physik, Vol CXXVII, 1950, pp 163-167.

SLA Tr 57-706

Sci - Mathematics

50,611

Aug 57

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

A New Method of Temperature Measurement in High-Temperature Arc Columns, Part I, by Hans Bartels, 38 pp.

GERMAN, per, Z Physik, Vol CXXVII, 1950, pp 243-273.

AEC Tr SCL-T-190

Sci - Phys

Sep 58

TS, 741

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

The Image-Forming Properties of Sector-Shaped Magnetic Fields, With a Discussion of the Effect of the Stray Field, by W. Ploch, W. Walcher, 22 pp.

GERMAN, per, Z Physik, Vol CXXVII, 1950, pp 274-288.

SLA Tr 2979

Sci. - Electronics
Jan 58

(AEC-Tr-1674)
5-8,188

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Absorption of X-Rays in the Case of Interference,
by G. Borrmann, 27 pp.
GERMAN, per, Zeitschrift fur Physik, Vol 127,
1950, pp 297-323. P911192567
AEC ANL Tr-443

327,899

Sci - Nuclear Science
Jun 67

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

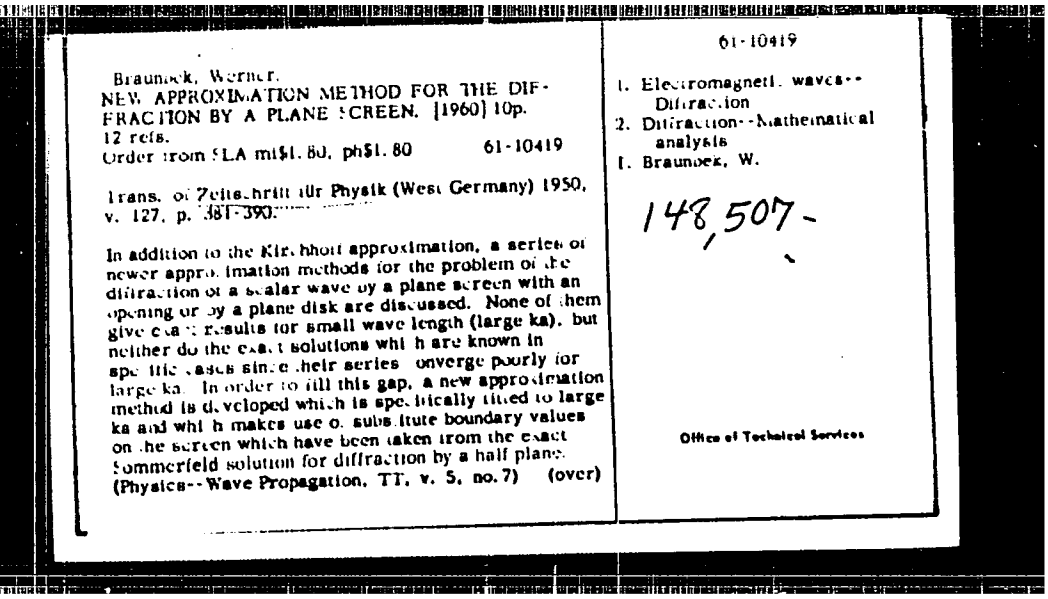
Effect of Thermally Exicted Sound Waves on Plastic Deformation, by G. Leibfried, 25 p.
GERMAN, per, Zeitschrift fuer Physik, Vol CXXVII, No 4, 1950, pp 344-356.
SLA TT 66-10895

Sci-Phys
Jul 66

304,484

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1



Braunbek, Werner.
NEW APPROXIMATION METHOD FOR THE DIFFRACTION BY A PLANE SCREEN. [1960] 10p.
12 refs.
Order from SLA mi$1.80, ph$1.80 61-10419

Trans. of Zeitschrift für Physik (West Germany) 1950, v. 127, p. 381-390.

In addition to the Kirchhoff approximation, a series of newer approximation methods for the problem of the diffraction of a scalar wave by a plane screen with an opening or by a plane disk are discussed. None of them give exact results for small wave length (large ka), but neither do the exact solutions which are known in specific cases since their series converge poorly for large ka. In order to fill this gap, a new approximation method is developed which is specifically fitted to large ka and which makes use of substitute boundary values on the screen which have been taken from the exact Sommerfeld solution for diffraction by a half plane. (Physics--Wave Propagation, TT, v. 5, no. 7) (over)

61-10419

1. Electromagnetic waves--Diffraction
2. Diffraction--Mathematical analysis
I. Braunbek, W.

148,507-

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Radiation Measurements of Electrically Heated
SiC Rods, by W. Bruegel,
GERMAN, per. Zeit Phys, Vol 27, 1950, pp 400-404,
*AEC-tr-2866

Sci-Phys
Aug 69

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Performance of the Quartz Clocks of the Physikalisch - Technische Reichsanstalt and the Annual Variation of the Length of the Astronomical Day, by A. Scheibe, U. Adelsberger, 23 pp.

GERMAN, per, Z Physik, Vol CXXVII, No 4, 1950, pp 416-428.

SLA Tr 57-997

52, 325

Sci - Astronomy

Aug 57

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Diffraction of Polarized Light By Screens of Finite Thickness in the Neighborhood of the Boundary of the Shadow, by Kurt Artmann, 44 pp.

GERMAN, per, Zeitschrift fur Physik, Vol CXXVII, 1950, pp 468-494. CIA D 15X239

Air Res and Dev Command

T-10 G E

Scientific - Physics

CMS 66/Mar 1955

22,277

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

The Linear Zeeman Effect in Crystals,
by K. H. Hellwege.
GERMAN, per. Z fuer Physik, Vol CXXVII, 1950,
pp 515-521. 9232278
AEC-AERE-Tr-1045
GB 45/11/3/5/2259
NTC 70-23706

Sci - Phys
Mar 66 297,865

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

On the Theory of Diffraction of a Screen, by Walter Franz, 14 pp.

[redacted], per, Zeit fur Physik, Vol CXXVIII, 1950.

29,474 CIA/FDD/XX-28
IAC INTERNAL USE ONLY

Scientific - Physics Dec 55 (TS/DEX

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Discoloration of Alkali Metal Halide Crystals by High-Energy Radiation, by S. H. Dorendorf, H. Pick, 13 pp.
GERMAN, pub. Z. fuer Physik, Vol CXXVIII, 1950, pp 166-171.
AEC-SLAC-Tr-14

Sci-Phys
Jun 65

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Supraconduction of Copper Sulfide, by W. Buckel, R. Hilsch, 16 pp.
GERMAN, per, Z fuer Physik, Vol CXXVIII, k 25 May 1950, pp 324-346. 9691132

ACSI I-2493-A
ID 2232439

Sci - Phys
Mar 64

251,361

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

The Isotope Frequency of Boron Mass Spectrometric Investigation of the Electron Impact Products of BF_3 and BCl_3, by O. Osberghaus, 17 pp.

GERMAN, per, Z Physik, Vol CXXVIII, 1950, pp 366-367.

AEC T_r ~~3045~~ 3244

Sci p Physics
Jun 58

65,961

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

On the Loss of Energy of Fast Electrons in thin Layers, UNCLASSIFIED
by O. Blunck, S. Leisegang,

GERMAN, per, Z. f. Physik, Vol CXXVIII, 1950, pp 500-505.

Navy Tr 487/NRL 381

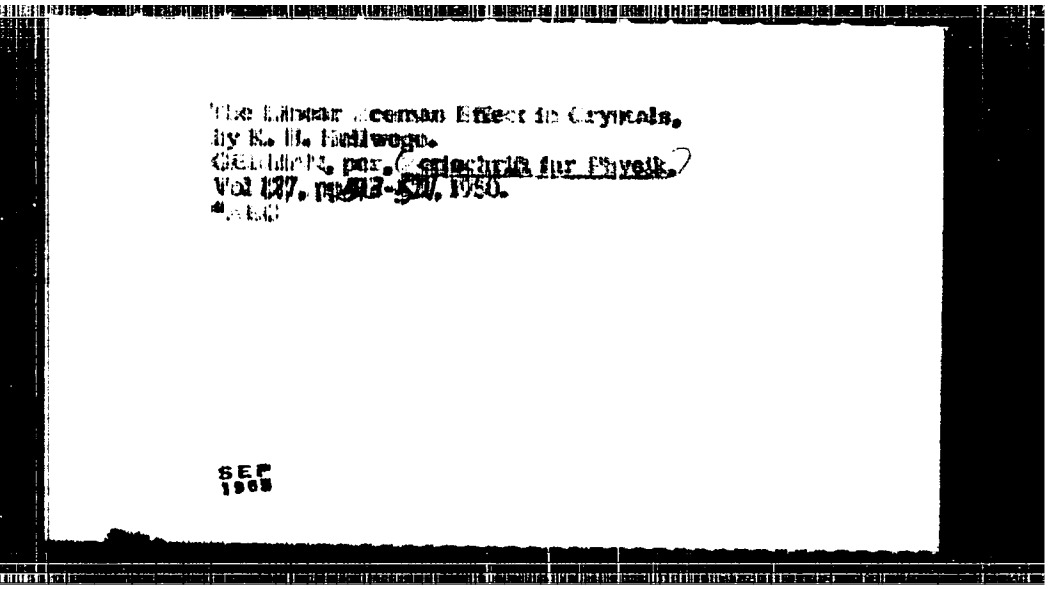
Jan 52 CTS

15,183

Scientific - Physics

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1



The Linear Zeeman Effect in Crystals.
By K. H. Hellwege.
Ges. Abh. Zeitschrift für Physik.
Vol 127, pp. 93-120, 1950.

SEP
1950

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Investigations With the Geiger Needle Counter
Metabnum On Treated Worked NKM-Metals, by
J. Kramer, 11 pp.

GERMAN, per, Z. Physik, Vol LXXVIII, 1950,
pp 538-545. 9018929

AEC-tr-1520

Sci-Phys
Jan 64

248,353

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

A New Method of Temperature Measurement in High Temperature Arc-Discharges, Part II, by Hans Bartels, 35 pp. /Columb

GERMAN, per, Z Physik, Vol CXXVIII, 1950, pp 546-574.

ABC &CL T-202

Sci - Phys

Dec 58

77,937

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

On the Rectifying Action, by W. C. Geel, H. Immens,
20 pp.

GERMAN, per; Z Physik, Vol LXXXVII, No 3-4, 1951,
pp 220-230.

SIA 58-292

Sci
Jul 59

93,012

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

A light arc for high power outputs, by Maecker, H., 22 pp.

GERMAN, per, Z Physik, 129, 1951, p 108-122.

SLA 58-508
AEC-SCL-T-133

Sci

Aug 59

94,351

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

The Temperature and Pressure Effect on Electron Terms in Crystals, by H. K. Paetzold, 23 pp.

GERMAN, pa.; Z fuer Physik, Vol CXXIX, 1951, pp 123-139. 9685241

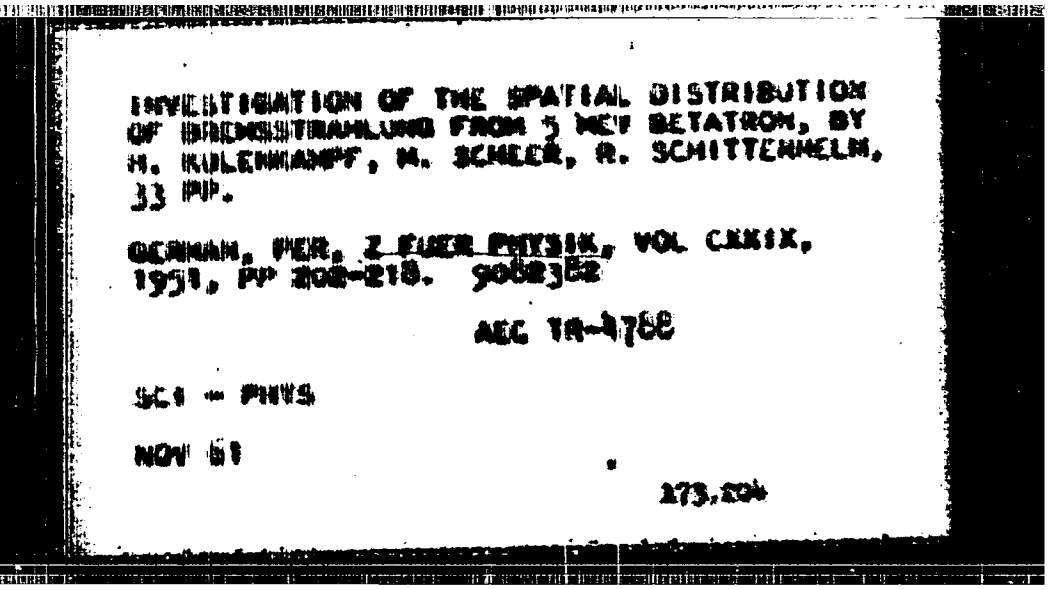
Emmanuel Coll Res Lang Ctr
E-T-C-63-9

Sci - Phys
Sep 63

344,115

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1



INVESTIGATION OF THE SPATIAL DISTRIBUTION OF BREMSSTRAHLUNG FROM 5 MEV BETATRON, BY H. KULENKAMPF, M. SCHELER, R. SCHITTENHELM, 33 PP.

GERMAN, PER. Z FUER PHYSIK, VOL CXXIX, 1951, PP 200-218. 90082382

AEC TR-4700

SCI - PHYS

NOV 61

173.204

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Thomas, Hans.
ON RESISTANCE ALLOYS. [1963] 16p. (figs omitted) 23refs
Order from SLA $1.60 63-20274

Trans. of Zeitschrift für Physik (West Germany) 1951, v. 129, p. 219-232.

DESCRIPTORS: *Alloys, Crystals, Transition elements, Heat treatment, *Resistance (Electrical), Deformation, *Heat resistant metals and alloys

A series of alloys consisting of primary mixed crystals and containing at least one transition metal as a component exhibits as a particularity that the resistance-temperature curve is curved S-form and that the resistance in the soft and in the hard state is increased by heating treatment at low temperatures and decreased by cold formation. This behavior can be attributed to the fact that at low temperatures there develops a very
(Metallurgy, TT, v. 10, no. 11) (over)

63-20274

1. Title: K-state
I. Thomas, H.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Larenz, Rudolf Wilhelm.
CONCERNING A METHOD FOR THE MEASUREMENT OF VERY HIGH TEMPERATURES IN NEARLY TRANSPARENT ARC COLUMNS (Uber ein Verfahren zur Messung sehr Hoher Temperaturen in Nahezu Durchlassigen Bogensaulen). [Paper] presented at meeting of German Physical Society, British Zone, Munster, 15 Apr 50. Dec 60, 20p. 7 refs. Technical Trans. F-54; AD-247 295.
Order from OTS $0.50 61-11135

Trans. of Zeitschrift für Physik (West Germany) 1951, v. 129, p. 327-342.

A method is presented of measuring the temperature distribution across an arc column by use of a spectrograph. An equation is developed for the determination of the electronic temperature that corresponds to the point of maximum spectral line intensity across an arc column. A graphical solution is given which relates the various parameters such as statistical weights, (Physics--Thermodynamics, TT, v. 5, no.7) (over)

61-11135

1. High temperature research
2. Electric arcs--Temperature
I. Larenz, R. W.
II. NASA TT-F-54
III. National Aeronautics and Space Administration Washington, D. C.
IV. Title: German Physical Society...
V. AD-247 295

148,564

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Temperature measurements in the column of a Gerdien arc, by R. W. Larenz, 27 pp.

GERMAN, per, Z. Physik, 129, p 343-364, 1951.

AEC-SCL-T-123
SLA 58-509

Sci

Aug 59

94,424

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Quadrupole Resonance Frequencies of Cl and Br Nuclei in Crystalline Dichlorethylene and Methyl Bromide, by H. G. Dehmelt, H. Krueger, 16 pp.

Full translation.

GERMAN, per, Z. Physik, Vol CXXIII, 1951, pp 401-415.

AEC Tr 1736

Scientific - Physics CMS/DEX

8477

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

The Performance Limits of Photoelectric Resistances
by H. Mueser.
per
GERMAN,/Z. Phys., Vol CXXIX, 1951, pp 504-515.

TPA3/TIB T 3949, P 22327T

EEur - Germany

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Individual Scattering of Molecules in a Gas With Maxwellian Distribution, by J. W. Hiby, M. Pahl.

GERMAN, per, Zeitschrift fuer Physik, Vol CXXIX, 1951, pp 517-529.

NZDIA

Sci-MXHPhys

Oct 63

241, 408

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

J. Rotta

Statistical theory of nonhomogeneous turbulence. Pt 1,
GERMAN, Zeitschrift fur physik, Vol 129, 1951,
pp 547-572
NASA TT F 14,560 29 pp

sept 72

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Electron Emission of Metal Surfaces as an After-Effect of a Mechanical Treatment or a Glow Discharge, by O. Hazel, F. G. Houtermans, K. Sitte, 21 pp.

GERMAN, per, Z Physik, Vol CXXX, 1951, pp 109-123.

SRC SCI-A-259

Sci - Phys

Sep 53

96,728

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Mass Dependence in the Emission of Electrons Due to Isotopic Ions, by Werner Ploch, 27 pp.

GERMAN, per, Zeitschrift fur Physik, No 130, 1951, pp 174-195.

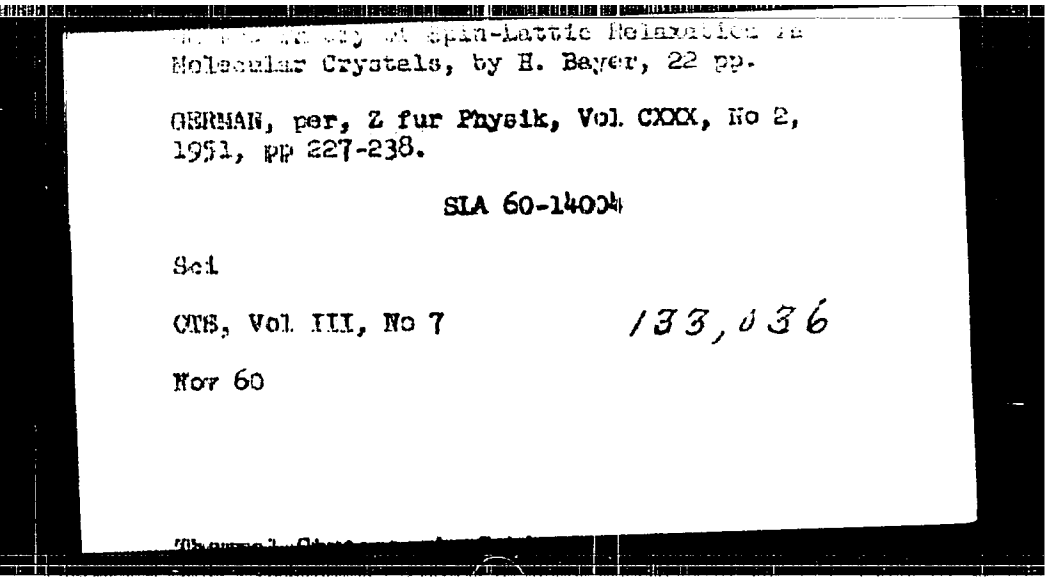
Amer Meteorol Soc T-0-169

Sci - Phys
Feb 52

184,992

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1



...of Spin-Lattice Relaxation in
Molecular Crystals, by H. Bayer, 22 pp.

GERMAN, per, Z fur Physik, Vol. CXXX, No 2,
1951, pp 227-238.

SIA 60-14034

Sci

OTS, Vol III, No 7 133,036

Nov 60

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Discoloration and Luminescence Caused by Becquerel V Rays and Associated Phenomena, by K. Przibram, 18 pp.

GERMAN, per, Z Physik, Vol CXXX, 1951, pp 269-292.

SLA TR 57-778

Sci - Physics

50, 580

Aug 57

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

On the Theory of Mercury-Cathode Spots,
by Theodor Wasserrab, 16 pp.
GERMAN, per, Zeit fur Physik, Vol CXXX,
1951, pp 311-320.
Dept of Navy Tr 4637/ONI Tr 2075

Sci- Phys
May 66 300,742

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Velocity Distribution of Individually Scattered Molecules in Gases, by J. W. Hiby, M. Pahl.

GERMAN, per, Zeitschrift fuer Physik, Vol ~~XXXX~~ CXXX, 1951, pp 348-355.

NZDIA

Sci-Phys

Oct 63

241, 409

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Quadrupole Resonance Frequencies of I^{127} Nuclei in Crystalline Covalent Iodine Compounds, by H. G. Dehmelt

Full translation.

GERMAN, per, Z. Physik, Vol CXXX, 1951, pp 356-370.

AEC Tr 1739

Scientific - Physics CTS/DEK 8474

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Contributions To The Study of Pure Nuclear Quadrupole Spectra in Crystals, by H. Kruger, 15 pp.

Full translation.

GERMAN, per, Z. Physik, Vol CXXX, 1951, pp 371-384.

AEC Tr 1743

8473

Scientific - Physics Dec 53 CTS/DEX

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

The Discoloration of Magnesium Oxide Crystals by its Own Lattice Members, by Heinrich Weber, 12 pp.

GERMAN, per, Zeit fuer Physik, Vol CXXX, 1951, pp 392-402.

A.E.R.E. Harwell
Tr 566

Sci - Physics, Chemistry, magnesia, radiation

32,928

Apr 56

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Hofbauer, Th. and Koch, K. M.
ON THE MECHANISM OF THE MAGNETIZATION DISCONTINUITIES. Preliminary Communication. [1962] 5p. (refs. figs. omitted).
Order from SLA $1.10 62-16966

Trans. of Zeits[chrift] f[ür] Physik (West Germany) 1951, v. 130, no. 4, p. 409-414.

DESCRIPTORS: Iron, Nickel, Wire, Magnetic fields, Magnetic effects, Torque, Deformation, Electric wire, *Magnetism.

It was found that in specimens with preferred direction of magnetization an auxiliary field at rather high frequency promotes both the release and the course of the magnetization discontinuities thus causing - with given values of the main field - an increase in value of the saturation magnetization and of the remanence. (Author)
(Physics--Magnetism, TT, v. 8, no. 10)

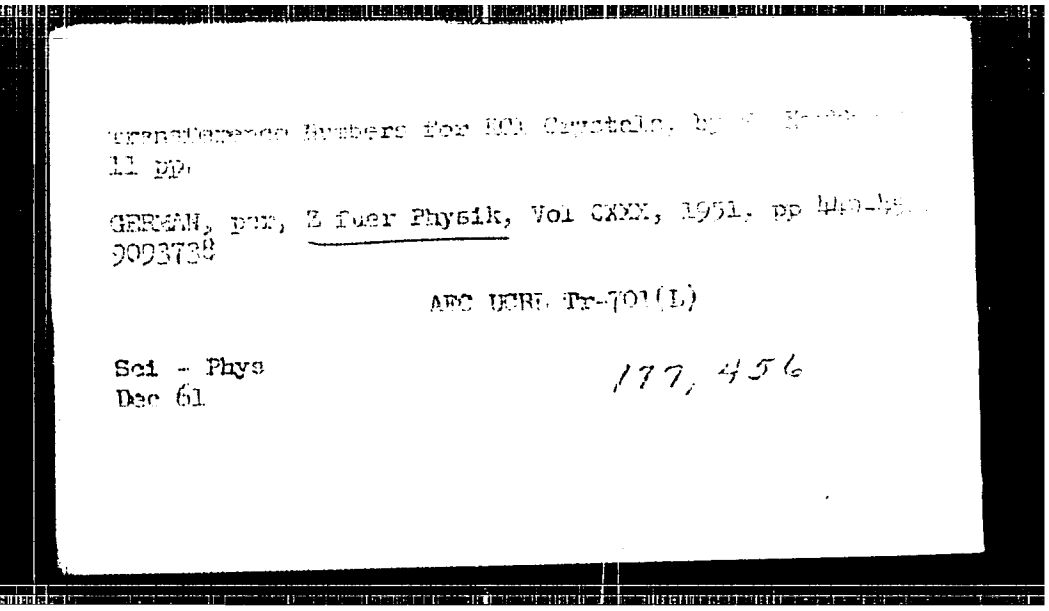
62-16966

I. Hofbauer, T.
II. Koch, K. M.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1



[illegible] Numbers for KH2 Crystals, by [illegible]
11 pp

GERMAN, pub, Z fuer Physik, Vol CXXX, 1951, pp 442-[illegible]
9003738

AEC UCRL Tr-701(L)

Sci - Phys
Dec 61

177,456

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Optical Image with Neutral Atoms, by H. Friedburg,
25 pp.
GERMAN, per, Zeit. fur Physik, Vol 130, 1951,
pp 493-512.
ARL/RSIC/Tr-897-69
GOVERNMENT USE ONLY

Sci/Phy
Mar 69

377,386

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

The Investigation of Thin Absorbing Films by Means of the Absolute Phase, by Herwig Schopper, 20 pp.

GERMAN, per, Z fuer Physik, Vol CXXX, 31 Jul 1951, pp 565-584.

CIA 9071185

Sci - Phys

Sep 60

127,133

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

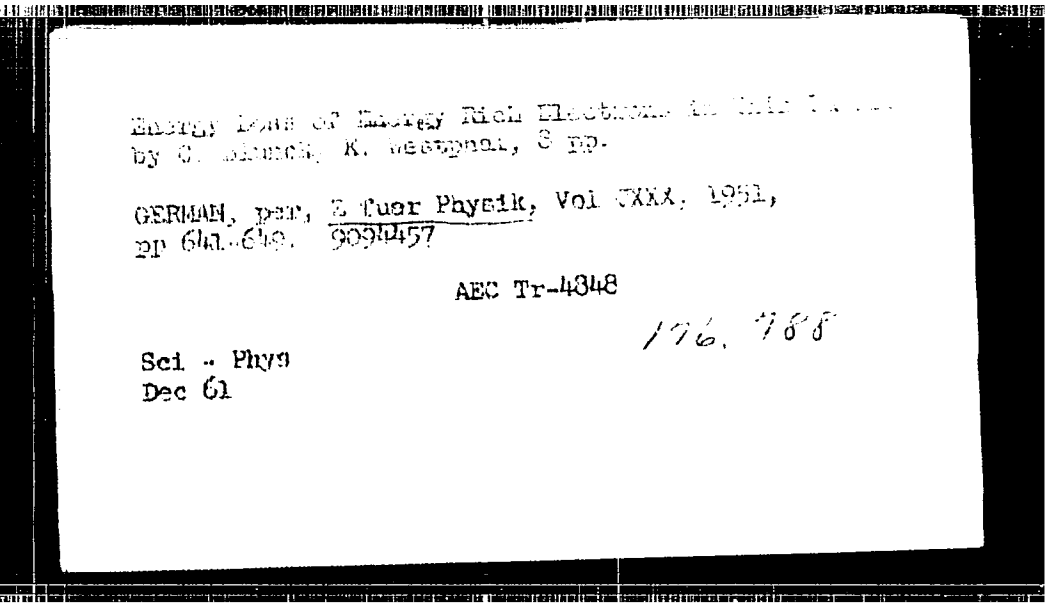
APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Arcs With and Without Focal Spots, by
W. Thouret, et al.
GERMAN, per, Zeit Physik, Vol CXXX,
1951, pp 621-631.
NASA TT F-10,172

U. S. GOVERNMETN USE ONLY
Sci-Phys
Jul 66 306,557

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1



Energy Loss of Energy Rich Electrons in Thin Layers
by G. Wenzel, K. Weekman, 8 pp.

GERMAN, per, Z fuer Physik, Vol CXXX, 1951,
pp 641-649. 9994457

AEC Tr-4848

176, 788

Sci - Phys
Dec 61

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Temperature Measurements on the Water Stabilized High Performance Arcs, by F. Burhorn, H. Maecker, T. Peters, 13 pp.

GERMAN, per, Zeit fuer Physik, Vol CXXXI, 1951, pp 28-40.

A.C.S., I, G-5793A

31,303

Sci - Physics

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

The Quadrupole Resonance Spectrum in Crystalline Antimony Trichloride and the Ratio of the Antimony Nuclear Quadrupole Moments, by H. G. Dehmelt, H. Kruger, 8 pp.

Full translation.

GERMAN, per, Z. Physik, 1951, pp 385-391.

AEC-Tr 1742

8472

Scientific - Physics Dec 53 CTS/DEX

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Statistical Theory of Nonhomogeneous Turbulence, Part II, by J. C. Rotta.
GOVERNMENT USE ONLY
GERMAN, per, Zeitschrift für Physik,
Vol 131, 1951, pp 51-77.
NASA TT F-11,696

Sci/Phys
Oct 68

369,118

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Concerning the Validity of Babinet's Theorem, by
H. Boersch, 6 pp.
GERMAN, per. Zeit. fur Physik, Vol 131, 1951,
pp 78-81. P200260768-V
RSIC-748
GOVERNMENT USE ONLY

Sci/Phy
Nov 68

368,916

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Arcs With and Without Focal Spots,
by W. Weizel.
GERMAN, per, Z. Physik, Vol CXXXI,
1952, pp 170-184.
*NASA TT F-10,173

U. S. GOVERNMENT USE ONLY
Sci-Phys
Jul 66

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Image Error of Mass Spectrometer as a Result of Space Charge and Magnetic Field Saturation, by E. W. Becker, W. Walcher, 13 pp. UNCLASSIFIED

Full translation.

GERMAN, per, Zeitschrift fuer Physik, Vol CXXXI, 1952, pp 395-407.

Navy Tr 653/NRL 407

Scientific -- Physics

Sep 52 CTS/DEX

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Supraconduction and Resistance of Tin With Lattice Distortions, by W. Buckel, R. Hilsch, 18 pp.
GERMAN, per, Z fuer Physik, Vol CXXXI, 1952, pp 420-442.
9691161

ACSI I-2493-B
ID 2232439

NTC 70-23258

Sci - Phys
Mar 64

251,362

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Flow of Fluid Media With Internal Transformations and Compression Viscosity, by J. Meixner, 12 p.

GERMAN, Ber, Zeit fur Physik, 1952, Vol CXXXI, No 4, pp 496-469.

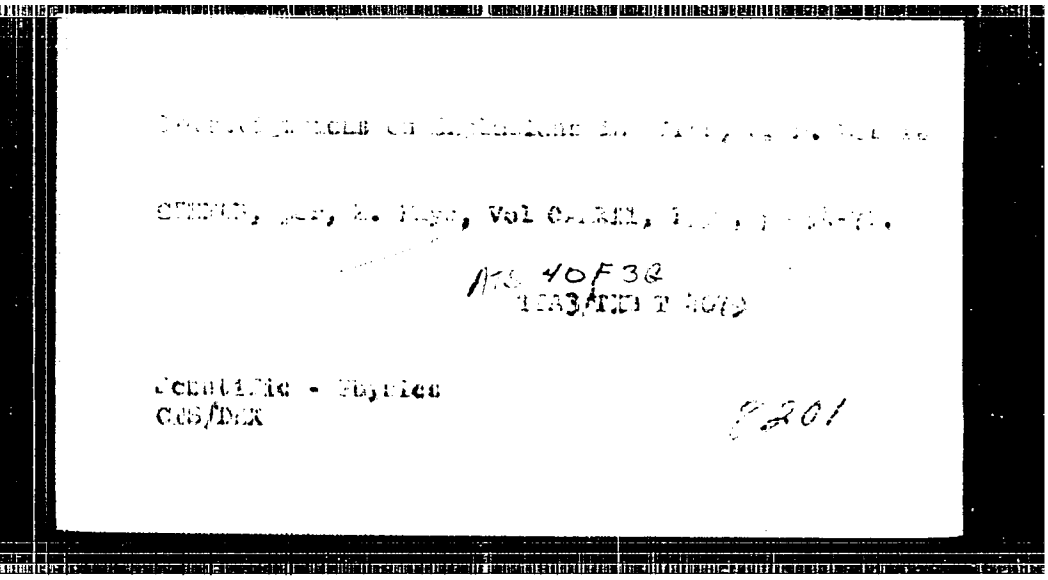
SLA 59-17940

Sci
Mar 60
Vol 2, No 11

109636

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1



[illegible] Vol [illegible]

AEC 40F32
[illegible]

Scientific - Physics
CARD INDEX

P201

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

The Influence of Contraction on the Temperature and Field Strength at the Cathode, by G. Ecker.
GERMAN, per. Zeit Physik, Vol CXXXII, 1952, pp 248-260.
NASA TT F-10,212

U. S. GOVERNMENT USE ONLY
Sci-Phys
Aug 66 308,918

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Schottky, W.
ON THE HIGH-FREQUENCY BEHAVIOR OF BARRIER-LAYER RECTIFIERS. [1961] 27p. 16 refs. 61-18254
Order from SLA $2.60

Trans. of Zeitschrift fur Physik (West Germany) 1952. v. 132, p. 261-284.

DESCRIPTORS: High frequency, Reaction kinetics, Mathematical analysis, Impedance, Resistance, *Semiconductors, *Crystal detectors, *Crystal rectifiers, Electrostatic capacitance.

(Physics--Solid State, TT, v. 6, no. 10)

61-18254

I. Schottky, W.

187243

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Atomic Nucleus as a Compressible Drop I. The Ground State of the Atomic Nucleus, by S. Flugge, K. Woeste, 14 pp.

GERMAN, per. Zeitschrift fuer Physik, Vol CXXXII, 1952, pp 384. 9209207

AEC-Tr-5783

Sci - Nucl Sci

Jul 63

236,195

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

The Super-Conductance of Niobium Nitride (Third Report on Super-Conductance, Erlangen), by H. Rogener, 29 pp. GERMAN, per, Z fuer Physik, Vol CXXXII, 1952, pp 445-467. 9696366
FSTC 381-T64-114

Sci - Phys
Apr 65 276,384

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Electrical Resistance of Thin Films of Tin With Lattice Dislocations, by J. Niebuhr, 23 pp.

GERMAN, per, Z fur Physik, Vol CXXXII, No 4, 1952, pp 468-481.

SLA 60-18799

Sci

Apr 61

146,167

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Kaiser, Wolfgang.
A NEW LIGHT ABSORPTION IN SILVER HALIDES. [1963] 14p. 25 refs.
Order from SLA $1.60 63-16637

Trans. of Zeitschrift für Physik (West Germany) 1952, v. 132, p. 497-507.

DESCRIPTORS: Light, Absorption, Silver, *Silver compounds, *Halides, Chlorides, Absorption spectrum, Colloids.

By using thin layers, the optically accessible spectral region is extended towards shorter wave lengths. In a pre-examination, it was demonstrated that the unpopulated centers of disturbance originating in the course of condensation influence the absorption constant. At low condensation temperatures, the end of the absorption curve, because of a high order of de-
(Physics--Spectroscopy, TT, v. 10, no. 9) (over)

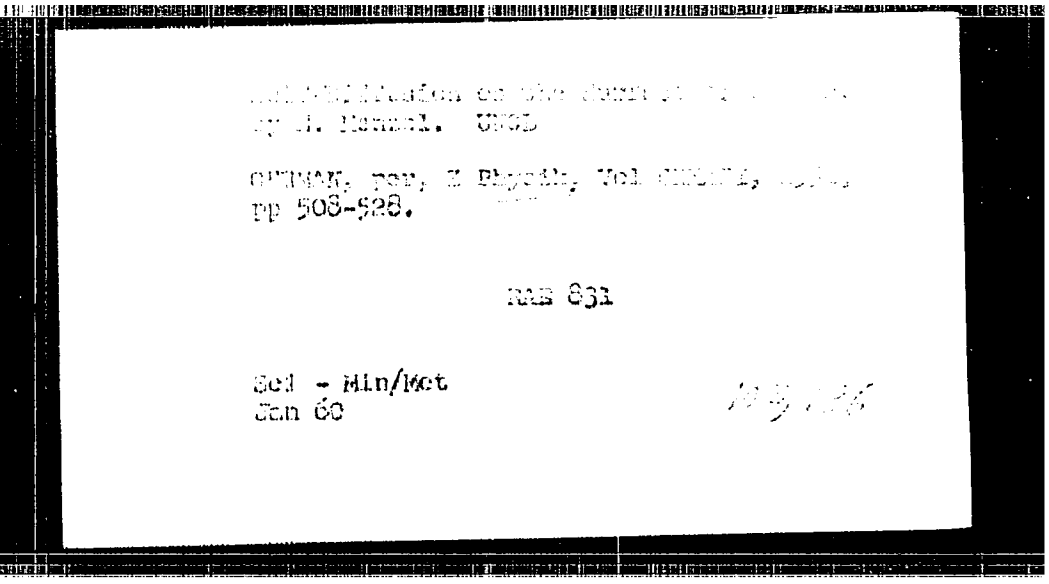
63-16637

I. Kaiser, W.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1



[illegible] on the [illegible]
[illegible]. Manual. USGS

[illegible], pap, M Physik, Vol [illegible], [illegible],
pp 508-528.

RAB 831

Sel - Min/Met
Jan 60

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

The Arc Form of the High-Pressure Discharge in Rare Gases, by K. Larche, 7 pp.

GERMAN, per, Zeitschrift fur Physik, Vol CXXXII, 1952, pp 544-552.

CIA/ROD/Z-79

~~A-CTB-DEX-T-687~~

Scientific - Physics Dec 53 CTB/DEX

~~(Navy - ONI Accession List, 14 Dec 1953)~~

8430

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Excitation of the Solar-Irradiated Aurora, by O. Oldenberg.

CHEMAN, per, Z. fuer Physik, Vol CXXXIII, 1952, pp 15-20.

CSIRO

Sci - Astronomy

Mar 62

189,500

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Measurement of Quantum-Mechanical Operators, by
E. P. Wigner, 9 pp.

GERMAN, per Z Physik, Vol CXXXIII, 1952, pp 101-108.

AEC Tr-5062

Sci - Phys
Jun 62
List 69

197,818

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Hiedemann, E. A. and Spence, R. D.
ON A UNIFIED THEORY OF RELAXATION PHENOMENA. [1963] 18p. (figs. refs. omitted).
Order from SLA $1.60 63-14649

Trans. of Zeitschrift f[ür] Physik (West Germany) 1952, v. 133, p. 109-[117].

DESCRIPTORS: Materials, *Elasticity, *Stresses, Deformation, *Relaxation time, Theory, Linear systems, Analog systems, Harmonic analysis, *Statistical functions.

The concept of relaxation signifies in its present day form a property of the response of linear systems. The assumption of causal succession of events in which the response must, as the effect, follow the cause, namely, the excitation of the system---is sufficient for the derivation of a unified theory of relaxation phenomena. The derivation presented in this paper is based on func-
(Mechanics, IT, v. 10, no. 7) (over)

63-14649

I. Hiedemann, E. A.
II. Spence, R. D.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

R-479-N/A

Uber das Elektronenaffinitatsspektrum Neutraler Wasserstoffatome, by W. Lochte-Holtgreven,

GERMAN, per, Z fuer Physik, Vol CXXXIII, 1952, pp 124-133.

*JPRS for Army Rocket and Guided Missile Agency

Sci - Phys

1 Mar 51

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Electric Arcs With and Without Focal Spots, by W. Weizel, W. Thouret. GERMAN, per. Zeit Physik, Vol CXXXI, 1952, pp 170-184. NASA TT F-10,173

Sci-Elect
Jul 66 306,567
U. S. GOVERNMENT USE ONLY

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Dosage Measurement of the Beta-Radiation of Radioactive Isotopes in Homogeneous Substances, by H. Sommermeyer, 20 pp. UNCLASSIFIED

Full translation.

GERMAN, per, Zeit Physik, Vol CXXXIII, 1952, pp 201-238.

AEC Tr 2019

Scientific - Nuclear physics

2084

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Excitation and Curve as Function of Time of the Aurora Afterglow in Nitrogen, by G. Cario, et al.

GERMAN, per, Z. fuer Physik, Vol CXXXIII, 1952, pp 209-228.

NRC Library
Ottawa, Ref C-2394

Sci - Chem

Apr 62

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Reversal of Motion in Quantised Field Theories,
by G. Lueders.
GERMAN, per, Z. Phy. No 133, 1952, pp 325-339.
*AEC-AERE

Sci/Phy
Nov 68

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

On the Electrical Conductivity of Cadmium Sulphide Crystals, Which is Connected with Phosphorescence, by Immanuel Broser, Ruth Warminsky, 19 p.

GERMAN, per. Zeit fur Phys 1952, Vol CXXXIII, No 3, pp 340-361.

SLA 59-17920

108924

Sci
Feb 60
Vol 2, No 10

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

The Effect of Dissolved Oxygen on the Electrical Conductivity of Zinc Oxide. 27 pp.
GERMAN, per, Zeitschrift fuer Physik, Vol 133, 1952, pp 422-437.
Dept of Navy NIC Trans 2786

NAV/NIC/TRANS-2786-69

sci/physics
mar 69

376,591

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

(FDD 20542)

Focusing Properties of a Combination Consisting of a Magnetic Field That Decreases With the Radius and an Electrical Field, by Dietert Fischer, 28 pp.

Full translation

GERMAN, mo per, Zeitschrift fur Physik, Vol CXXXIII, Berlin 1952, pp 455-470.

CIA/FDD/U-6036

WEur - West Germany
Sci - Physics, electron optics

16,005

Copyright

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

(Fro doc 49)

Mass Spectrometer With Double Direction-Focusing and Velocity Focusing, by Dietert Fischer, 22 pp.

CEIMAN, mo per, Zeitschrift fur Physik, Vol CXXXIII, Berlin, 1952, pp 471-484.

AEC Tr 1930
CIA/FDD/U-6076

H Wur - Germany
Scientific - Physics, mass spectrometer

15 Sep 53

COPYRIGHT

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Dietrich, Ingolde.
EXPERIMENTS ON THE [illegible]
CONTACTS. [1961] 7p. refs
Order from: SLA $2.10 62-10516

Trans of Zeitschrift für Physik (West Germany) 1952, v.133, p. 499-503.

DESCRIPTORS: Tantalum, *Superconductors, Electrodes, Electric connectors, Electrons, *Superconductivity.

Contacts between electrodes of superconducting Ta, covered with insulating layers of known [illegible], became superconductive. The relationship of the transition curves to the thickness of the layer and to load current is investigated. (Author)

(Physics, TT, v. 8, no. 2)

62-10516

1. Dietrich, I.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

(FDD 20547)

Second-Order Focussing of the Magnetic Sector-Field, by J. Geerk, C. Heinz, 21 pp.

Full translation.

GERMAN, Der Zeitschrift fuer Physik, Vol CXXXIII, prob Berlin, 1952, pp 513-523.

CIA/FDD/U-5833

WEur - WestGermany
Sci - Physics, electron optics

13,132

Copyright
Apr 54 GMS

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

The Arc Form of a Noble Gas High Pressure Discharge, by K. Larche.
GERMAN, per. Zeit Physik, Vol CXXXII, 1952, pp 544-552.
NASA TT F-10,208

U. S. GOVENRMENT USE ONLY
Sci-Phys
Aug 66 309,646

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

V

Some Contributions to the Isotopic Shift Effect in the Atomic Spectra of the Heavy Elements, by Walter Humbach, 21 pp.

Full translation.

GERMAN, per, Z. Physik, Vol CXXXIII, 1952, pp 589-614.

AERE Tr 11/3/5/384

Scientific - Physics Dec 53 CTS/DSX

8466

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Viscosity Difference Between Ortho- and Para-Hydrogen at Low Temperatures, by E. W. Becker, O. Stehl.

GERMAN, per, Z. Physik, Vol CXXXIII, 1952, pp 615-628.

*ATIC

Sci - Chem

Apr 57 CTS

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Surface Investigation on Metals and Non-Metals With Exo- and Photoelectrons, by J. Kramer, 27 pp.

GERMAN, per, Z Physik, Vol CXXXIII, 1952, pp 639-646.

AEC NSL-T-470

Sci
May 61

157, 154

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Optical Study of Plastic Deformation of Silver Chloride, by E. Rohloff.

GERMAN, per, Zeitschrift fuer Physik, Vol CXXXII, 1952, pp 643-654.

*ERDL, Ft Delvoir T-1034

Sci - Phys
Oct 61

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1

Temperature and Electron Density in a Water Stabilized Light Arc, by G. Jurgens, 20 pp.

[illegible], per, Z. Physik, Vol CXXXIV, 1952, pp 21-41.

AEC SCL-T-268

Sci - Phys

Oct 59

99,526

APPROVED FOR RELEASE: Thursday, May 16, 2002 CIA-RDP84-00581R000401250050-1